The County's Natural Resources.

A BRIEF STATEMENT OF THE TOPOGRAPHY, DRAINAGE AND AGRICULTURAL POSSIBILITIES,

Lead, Zinc and Spar Deposits. Mineral Paint Beds, Etc.

A Plain Statement of Facts from Prof. Ulrich.

Editor Crittenden Press: In reply to your letter of a few days ago, requesting a brief account of the natural resources of the coun ty, permit me to say (1) that any thing I can do toward the development of her latent wealth will b ne with pleasure: and (2) since ha general interest and dear

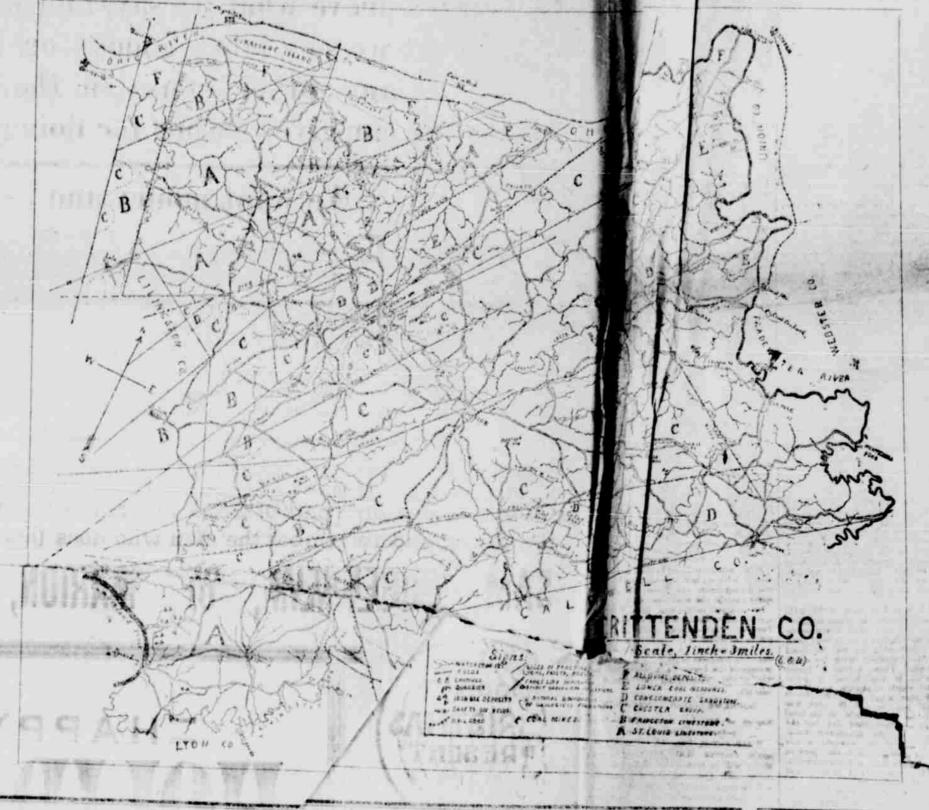
al deposits etca of Crittenuen has been called to life, I believe that I cannot better economize my already to by occupied time than by writing the following conservative stay

As you will probably wish to tablish my feater, it may be well to say why I may be expected to know something of the county.

In the fall of 1888, Prof. John R. Procter, the accomplished Chief of the Geological Survey of the State: sent me to Western Kentucky to make a careful and systematic sur vey of the two counties of Caldwell

been made during last two months, importance in the decopment of Over about two fifths of the area cement. fairly full and perfectly unprejudic-

en as a whole, is decidedly hilly. Much of this unevenness is the result of an unusually extensive sys tem of fracturing which this portion of Kentucky has been subjected to. these is mother series of linestones country. It is a feature that deserves with souther series of linestones country. It is a feature that deserves with souther series of Wasier. With the river in Webster, the Crab Or- and adjacent countries. no to with these convulsive move Princeton group. They have a velopment of the county. ments of the earth's crust, which so thickness in the county of about 200 frequently result in marked topographical peculiarities, and in this at the surface are marked "B" on the convenience of t lines of drainage. These movements sizes mainty of which would afford will be discussed in a succeeding of coal which would be seen in the coal which would afford will be discussed in a succeeding of coal which would be seen in the coal which would be seen in the coal which would be seen in the coal which we can also a succeeding of coa have further been of consequence to good building stone, while the most of the beds could be burned into the average, while the timber growth the average, while the timber growth the average, while the timber growth to nit when we can give the average, while the timber growth to nit when we can give the average, while the timber growth to nit when we can give the goods. You owes her metalliferous veins. Denudation and the levelting influencess
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tion of the group also farnishes the
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tion only two beds which have been shales, or of softer gray shales betion of the group also farnishes the
tion of the group also farnishes the group also farnishes the
tion of the group also farnishes the of time have wrought great changes best sor's of the county. These are in the preceeding paragraph. sampled and tested with satisfactory tween these and the coal. At the here, since the shake up era. Indeed, practically inexhaustible, and in ter The spaces marked "F" represent results. The first is an eight foot top of the coal there is almost invar. These two regions contain from cases wight be pointed out where tility are scarcely inferior to the far bottom lands. These occur mainly shales occurring on a level with the coal that is usually against the coal that the coal that is usually against the coal that the coal that the coal that the the p sent topography is quite the famed "blue grass" soi's of central along the Ohio river from Fords Feron V. R. R., beneath the Imposition as determined but its composition as determined by the contract its contract



series and the country of the countr

tion of mineral deposits of various kinds. It may take some time to stones (marked A on the map) are decipher all these features, but if you will print it properly. I have no chort or flint blocks, which hate or chort or flint blocks, which hat one development of this massive rock. The soil, as small with englowerate soils, is but iffyed apropose, but the timber on the control of this massive rock. The soil, as small with englowerate soils, is but iffyed apropose, but the timber on the control of this massive rock. The soil is the burbance of the lowest in the series of true coals. It outcomes that range countries as the time of an arm of the lowest in the series of true coals. It outcomes that these coals are unquestionably very depart to the stream of the lowest in the series of true coals. It outcomes that these coals is but if you along the country, inknown to me trom part of the time to faite of the lowest in the series of true coals. It outcomes the country of the country agrandition of the limestone. The soil as a residue after the distinguished by an abundance of the lowest time to be overest. The soil as the propose of the uncertainty of the country agrandition of the limestone. The soil as a residue after the distinguished by an abundance of the lowest time the steam to one that these coals is but in the series of true coals. It outcomes the town of the limestone of the lowest time to one the limestone of the lowest in the series of true coals. The soil as the propose of the uncertainty of the country agrandity of the country agr

the bject of this communication is limestones are the surface rock are t

printer as soon as he is through with the work for the Constitutional Convert which forms the northern bonn, which at present is claim dry of the county. The Tradowater of the streams ty, from the decadence as a building rock. The recognized.

Work of these flow into the Ohio riv. The Tradowater of the streams ty, from the county is scarcely to be over the last would include a would include the streams to the county is scarcely to be over the last would include a would include the county is scarcely to be over the last would include the county is scarcely to be over the coal from several to the world include the county is scarcely to be over the last would include the coal from several to the world include the coal from several to the c ing his entire attention. This und flows along the northeastern border mainty of annietones, the limestones hydraulic limestones by draulic limestones by expected delay in the publication of and the Camberland forms about a said soft shales which are the pre- land at Dycusburg and other points wa'er coals, as they were called, rude methods at the Barnby mines, the full report, makes it desirable miles of the southwestern boy by, dominating constituents of the for- along the river has been mentioned were esteemed above all others by certainly locked like a good coke; that at least a digest of its contents be published in advance. Indeed, the numerous inquiries which have these navigable rivers, if the first and in part totsly absent here.

The possession of facilities to cheap mation in other sections of the already. As near as can be deter-river men for steam making qualities, and Mr. McAlfatric, of Princeton, mined from analysis, this rock should make a good quality of hydraulic and other mines were worked vigorechard mines of Webster county,

county, the similest is in the north estern cor- GUILDING STONE, LIME, CLAY, STO. Springs, on the line of the proposed characteristies of this bed of coal.

marked "C" on the map, the Chester ty. Flagging of unusual hardness operation are maintained at some of experts as in every way equal to the find that in the matter of metallic mere statement of metallic mere s swers than I can spare. I have, anological parations, soils group of rocks are at the surface, and remarkably even surface is them. This is possible only usecause best Connellsville. The goods willy lowest or oldest referred to the formation is not less competing coals, otherwise it would these Tradewater coals is as follows:

and the total thickness of the strata found in great quantity in the holis competing coals, otherwise it would these Tradewater coals is as follows:

and the total thickness of the strata found in great quantity in the holis competing coals, otherwise it would these Tradewater coals is as follows: ed and conservative account of the fermation of the ferma To make these more available, I the suff arboniferous system. The inne body of timber, with cake pre- almost pure quartz and have been distressingly rough roads. have prepared the accompanying limes me itself is but rarely seen, iominating. Considerable tracts, used with success as turnace linings. But the principle value and fea-three miles, and showing, I be designed and well supported and well supported mentioned where good building stone qualities, and in this it fills a want

and fractures of the strata and local and fractures of the strata and local and fractures of the strata and local and other day, Bardin's and other day, and the high hill, on the west side of the high hill, on the west side of the lime of fautering. The limes

Resting on these cherty limeatones are perhaps equal to say in the on the land of Mr. — Murphy- Name or Sneeds mines. Across and kindred industries of Crittenden on by the old furnate company, shally beds of the lot of arms. to which I have applied the name of to be remembered in the future debetter facilities of transportation this as the same bed, are fairly active. IRON ORE DEPOSITS.

so well known Salem of ochtic limestone, nearly all of such excellent quality that its impor- There is some filrous coal between ready for publication, and will be Drainage is ample as may be seen placed into the hands of the state from the abundance of the streams, ty, from the abundance of the streams, ty, from the abundance of the streams, ty, from the country is scarcely to be overmake such a publication not only the resources of any feality. Their of the county, as may be seen by Sandstone suitable for ordinary ciple demand for the output of these that the coal from that mine produdesirable but necessary, if I would value here cannot I overestimated, noting the distribution of the spaces building purposes is present in plen-

when sufficient care is exercised to high knobs are also, without county, barnbys has been stated already, their most Heywood and Marshall) must confuse the soils of the less soils of the less soils of the county soils of the county of the less soils of the less soils of the county soi "hat and Jacks") and Tates, but important advantage lies in their tain an humense quantity of "honey At the Columbia miry rank as one of the best soi's of the fadeed. Crittenden county has natstate for a long sine.

A large bed of umber and yellow by seen at Lambs, Caseys, Bells, distant day must make them almost latter. Going up the creek I examined the ural advantages in that respect that.

Spinards, Miners shall, Cooks and indispensable to the reviving iron itself the ure banks chiefly depended at least long hundrer of the banks chiefly depended

In the regions marked "E" the deposit cannot fail to remunerate in- The average thickness of the Iron ore of several varities occur ricty, being still in sight. Another series will be r. TS feet, and the spaces where they are lower coal measures are at the sur-

immediately after that era; but, as The regions where the Princeton table fertility of such lands is so well miles west of Nunns station. The survey is such that it regreate the portance. These ores are limonites where then any CARVALIANS BLOCK. ry west. The great and inexhaus of Giles' ountry, about one and a half be Dr. Pater, the characteristic is, of course, of prime imthe spect of this communication is to show what is rather than what has beet, their discussion would be out beet, their discussion would be out to show the special control of the area of the special control the county. Four of these regions lands also occur in the valley of the between Marion and Crittenden

the rivers." The iron which is pro- lumbis mines, duced from these ores maintains ed with even i an excellent reputation for strength ling capital to and malleability. The Kentucky many shatis w cre banks, though very actively was absolutely worked before the war, have not pro- Nor are the tuced much iron since. In the last tew years, however, a desire to resume operations has become mani fest. Several new furnaces have this been built or are under way, and the looked for revival of interest in the iron depos | cent. its is making itself feit throughou der Western Kentucky. But, Critten- ou, den county, despite the fact that she had formerly demonstrated that her de iron deposits are both good and relable, seems slow in availing her-

ed the owners to shut down. For similar causes the Hurricane furcace, which was in blast during the latter half of that period, discontined operations.

Complete sets of the ores used a these furnaces were analyzed by Dr. Robert Peter, and published in Vol. d of the old series of geological reports of the state (1861) 1 have aken the trouble to work out the werage composition of the cres at brought out in these analysis, and, although one of the samples was un usually poor and contained a much larger per cent. of phosphorus than usual, the result is so favorable that it may without fear be submitted for emparison with average analyses of he principal ores of Tennessee and Alabama. It should be mentioned, pethaps, that without the poor sam-

lieve in as clear a manner as possil, he Comberland river in the vicinity ble on so small a scale, the outlines of Dycushurg, and in the bed of is the lowest formation of the continuous of the roads, the location of the tories, periodices, principal churchs and other well known points; beades, the outlines of the different geological formations, the courses of the value of the courses of the value of the courses of the course inexhausible, while many may nor both wall are limeater. The depth

> These are not exhausted by any ferous will be enco Tepre meens; great quantities of good ores, however hot the e

ommonly denominated as "between of them, exce

and Surrounding Gour with the tide." Thus, while adjoining counties are pushing their properties into the foreground, little or perties into the foreground, little or and finding same the same of Crittenden furnace, located near Dycusburg, began running in 1849 ave concluded, in sell everythi

Devonshire lead

In order to show y IRCHASER

shaft nearly fifty tine interest atauhes to this ery, but beyond the mere date ation of the existence of rocks in this field, foey he economic value. / la my the survey I do

the questions relating to the of the lead and other m these veins, the horizons at the greatest deposits may be ed and the depth to which tend It is heither ne

with them issuing out the Those conversant with these mat-